

# Gated Flood Control Spillway Construction Comparisons

November 2018



1968

2018

<b>Length of main spillway</b>	<b>3,055 feet</b>	<b>3,055 feet</b>
<b>Width of main spillway</b>	<b>178.75 feet</b> As wide as a 12-lane freeway with center divider	<b>178.75 feet</b> As wide as a 12-lane freeway with center divider
<b>Flow capacity</b>	<b>270,000</b> cubic feet per second	<b>270,000</b> cubic feet per second (100,000 cfs from Nov 2017 through January 2019)
<b>Spillway Chute Concrete thickness</b>	DESIGN: <b>1 foot, 3 inches</b> minimum ACTUAL: <b>2 feet, 8 inches</b> average	DESIGN: <b>4 foot, 6 inches</b> minimum ACTUAL: <b>7 feet, 6 inches</b> average
<b>Spillway wall height</b>	<b>20 feet - 27 feet</b> 1 foot thick at the top 2 feet, 4 inches thick at the base	<b>20 feet - 34 feet</b> 2 feet thick at the top 5 feet thick at the base
<b>Piezometers</b>	<b>0</b>	<b>58</b>
<b>Reinforcing steel</b>	LAYERS: <b>1</b> DIAMETER: <b>5/8 inch</b>	LAYERS: <b>2 (top is epoxy-coated)</b> DIAMETER: <b>1 inch</b>
<b>Underdrains</b>	TYPE: <b>Clay</b> DIAMETER: <b>6 inch</b>	TYPE: <b>PVC</b> DIAMETER: <b>8 inch</b>
<b>Slab Anchors</b>	QUANTITY: <b>Appx. 5,700</b> DEPTH: <b>5 feet deep</b>	QUANTITY: <b>Appx. 7,000</b> (epoxy-coated) DEPTH: <b>15 to 25 feet deep</b>